

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	16	"887716"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 13:31
S2	7	"1638209"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/08 16:33
S3	0	("1638209").URPN.	USPAT	OR	ON	2008/01/08 16:30
S4	110316	ring.ab.	USPAT	OR	ON	2008/01/08 16:30
S5	1	"200128887"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/08 16:34
S6	4527	brand.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/08 16:35
S7	0	"brand.in.inhaler"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/08 16:35
S8	0	"brand.in. inhaler"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2008/01/08 16:35

S9	26	brand.in. inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2008/01/08 16:50
S10	2	"7128068"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2008/01/08 16:50
S11	0	("7128068").URPN.	USPAT	OR	ON	2008/01/08 16:53
S12	11	"3853413"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 08:25
S13	61	("1694354" "2438107" "2960359" "3077811" "3446522" "3601764" "3611260" "3808580" "3853413" "3892458" "3917373" "3971614" "4007953" "4030798" "4066315" "4074927" "4109990" "4152039" "4165910" "4235498" "4239314" "4264116" "4268103" "4272144" "4291933" "4457469" "4484790" "4487470" "4497530" "4502748" "4519661" "4531801" "4548458" "4648670" "4703988" "4726782" "4746303" "4820184" "4834667" "Re31995").PN. OR ("5082454").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 08:36
S14	13622	"128"/\$.ccls. and (ring or coupling)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 08:38
S15	1320	"128"/\$.ccls. and (ring or coupling or collar) and aerosol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 08:44
S16	1651	"128"/\$.ccls. and (ring or coupling or collar) and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 08:44
S17	674	"128"/\$.ccls. and (ring or coupling or collar) same (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 08:45

S18	777	ring\$5 and godfrey.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/09 08:46
S19	22526	ring\$5 and godfrey.in. adn glaxo\$.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/09 08:46
S20	9	ring\$5 and godfrey.in. and glaxo\$.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:20
S21	16987773	222/Dig "4"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/09 13:32
S22	0	239/dig4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/09 13:32
S23	0	(239/dig4).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	OFF	2008/01/09 13:33
S24	605	(222/402.24).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	OFF	2008/01/09 13:33
S25	1405	(215/250,253).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	OFF	2008/01/09 13:33

S26	1306	(403/300,309,313).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2008/01/09 13:34
S27	3812	(128/200.11,200.12,200.14,200.23,200.26,202.27,912).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2008/01/09 13:35
S28	0	S24 S25 S26 S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2008/01/09 13:35
S29	7120	S24 S25 S26 S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 13:35
S30	1931	S29 and ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 13:36
S31	398	S29 and ring and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 13:36
S32	69	S29 and ring and inhaler and collar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 14:47
S33	226477	(angu\$5 angl\$4 taper\$4) with (ring collar washer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:12

S34	302	S33 and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 14:49
S35	14432	(angu\$5 ang \$4 taper\$4) with (ring collar washer) and weak\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:12
S36	958575	(angu\$5 ang \$4 taper\$4) with (ring collar washer) saem weak\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:12
S37	2518	(angu\$5 ang \$4 taper\$4) with (ring collar washer) same weak\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:13
S38	0	(angu\$5 ang \$4 taper\$4) with (ring collar washer) same weak\$ and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:13
S39	10	(angu\$5 ang \$4 taper\$4) with (ring collar washer) same weak\$ and aerosol\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:15
S40	45	"0128887"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 15:38
S41	1022	(128/200.23").OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2008/01/09 15:39

S42	114	S41 and collar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 16:11
S43	647	(174/664,665;408/163,164,166;220/649).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 16:12
S44	54	S43 and split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 16:17
S45	207	"128"/\$.ccls. and collar and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 16:23
S46	13	"128"/\$.ccls. and split and collar and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/09 16:18
S47	229	glaxo\$.as. and (collar or ring\$5) and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:01
S48	13	glaxo\$.as. and (collar or ring\$5) and inhaler and "128"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:23
S49	34	christrup.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 13:20

S50	4	glaxo\$.as. and (collar or split\$ring) and inhaler and "128"\$/\$.cls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:25
S51	0	glaxo\$.as. and (split\$ring) and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:26
S52	4	(split\$ring) and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:26
S53	4	("split-ring") and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 08:26
S54	7	"1638209"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 13:21
S55	11	"3853413"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 13:21
S56	59	("1368525" "1432294" "1452492" "1473354" "1597525" "1784667" "2358606" "2410951" "2432870" "2450425" "2551384" "2585500" "2860540" "3141208" "3214204" "3516272" "3662642" "3853413" "3881334" "4176534" "4242775" "4274323" "4371301" "4405251" "4429557" "4474043" "4581910" "4792253" "4891961" "5106252" "5127764" "5172500" "5465596" "5768752" "5797168" "5813262" "5857800" "6098251" "6185793" "6186880" "6243922" "6243929" "6257792").PN. OR ("6845644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 13:23

S57	56364	perforat\$4 same ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:20
S58	1050	perforat\$4 with ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:21
S59	3794	split with ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:22
S60	37	inhaler and split with ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:27
S61	280050	ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:27
S62	74	ring.ti. and "128"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:31
S63	5501	rings same weakened	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:32
S64	2000	rings with weakened	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	:OR	ON	2008/01/10 16:32

S65	0	rings with weakened same inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 16:32
S66	2	rings with weakened and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 16:32
S67	9	rings with weakened and "128"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 16:33
S68	58595	rings with manufac\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/10 16:34
S69	157	rings with manufac\$4 closed open	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/10 16:34
S70	1307	403/300,309,313.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:15
S71	172	S70 and ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:16
S72	50	S70 and split and ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:21

S73	26981	collar same split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:21
S74	85	collar same split and "128"/\$.cls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:25
S75	10082	inhaler and (ring or ((split adj (ring or collar)) or (collar with weakened)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:28
S76	6731	inhaler and (ring or ((split adj (ring or collar)) or (collar with weakened))) and manufactur\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:29
S77	0	inhaler and ((collar with weakened)) and manufactur\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:29
S78	0	inhaler and ((collar with weakened))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:29
S79	291	manufacturing split ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:43
S80	0	manufacturing split ring \$tang\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:41
S81	1	("1989750").URPN.	USPAT	OR	ON	2008/01/11 08:42

S82	2068	split near ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:44
S83	427	S82 and (making forming manufac\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:45
S84	85	S82 and (making forming manufac\$4).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:53
S85	2867594	entangled ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 08:54
S86	409	entangled ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:59
S87	38	entangled ring and split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:56
S88	2	entangled ring and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:59
S89	2	entangl\$4 ring and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 08:59

S90	11	entangl\$4 ring split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 09:01
S91	7350	split with coupler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 09:07
S92	73	split with coupler and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 09:08
S93	0	(split with (coupler collar ring)) and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 09:09
S94	324	(split with (coupler collar ring)) and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:09
S95	28	(split with (coupler collar ring)) and (aerosol or inhaler).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:12
S96	9363950	(making forming manufacturing)(split with (coupler collar ring))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:12
S97	0	(making forming manufacturing)(split with (coupler collar ring))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	SAME	ON	2008/01/11 09:13

S98	16467	(making forming manufacturing) same (split with (coupler collar ring))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:13
S99	1231	weak\$ same (split with (coupler collar ring))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:13
S100	98	weak\$ with (zone site area) same (split with (coupler collar ring))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:14
S101	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816627" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 09:26
S102	22	("1324833" "1512020" "1799447" "1921488" "1970449" "2069569" "2198376" "3495496" "4270815").PN. OR ("4558962").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 09:33
S103	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816627" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 09:36
S104	7	"3446522"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 09:36
S105	15	("1694354" "2960359" "3077811" "3446522").PN. OR ("3853413").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 09:40
S106	3	entagle\$ ring	US-PGPUB; USPAT; USOCR	WITH	ON	2008/01/11 09:40
S107	63	(mak\$4 manufactur\$4 form\$3) with (split near2 (ring coupler collar))and (inhaler or aerosol)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:54
S108	1042	(making manufacturing) with split with (coupler collar ring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 09:55

S109	81	(making manufacturing) with split with (coupler collar ring) and weak\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:03
S110	3864	contracting ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:03
S111	521	contract\$4 ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:03
S112	117	contract\$4 ring and inhaler	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:04
S113	164	contract\$4 ring and "128"/\$.cols.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:09
S114	6263	contract\$4 ring and split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:09
S115	2692	contract\$4 ring split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:09
S116	2692	contract\$4 ring split	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:21

S117	185	contract\$4 ring split.ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:09
S118	3147807	ring collar split-ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:21
S119	3261	(ring collar) with (rupture)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:22
S120	278716	(ring collar) with (rupture) ond weakened	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:22
S121	327	(ring collar) with (rupture) and weakened	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:28
S122	530	(ring collar) with (rupture).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:32
S123	81	(ring collar) with (rupture).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:23
S124	67	(ring collar) with (rupture) and (aerosol or inhaler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:28
S125	17	("3456644" "3598294" "3814297" "5027808" "5060643" "5217004" "5347998").PN. OR ("6415784").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 10:30

S126	135	manufacturing with (split near ring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:48
S127	803	ring with breakable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:48
S128	45	ring with breakable with point	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 10:54
S129	81	break\$4 (ring or collar or coupler or washer) expand\$ contract\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 10:55
S130	24226	cut\$4 with ring.ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:14
S131	5827	cut\$4 with ring.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:14
S132	17	cut\$4 with ring.ab. and "128"/\$.cols.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:15
S133	364	cut\$4 with ring and "128"/\$.cols.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:18

S134	0	cut\$4 with ring and contract\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:18
S135	9264	cut\$4 with ring and contract\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/01/11 11:18
S136	2000	weakened ring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 11:19
S137	195	weakened ring and contract\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	WITH	ON	2008/01/11 11:19
S138	0	("2005/0079916").URPN.	USPAT	OR	ON	2008/01/11 11:39
S139	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816627" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 11:39
S140	9	("2648578").URPN.	USPAT	OR	ON	2008/01/11 11:51
S141	5395	ring with (cut adj out or cutout)	USPAT	OR	ON	2008/01/11 11:51
S142	242	ring with (cut adj out or cutout).ab.	USPAT	OR	ON	2008/01/11 12:01
S143	64	ring with (cut adj out or cutout) same contract\$4	USPAT	OR	ON	2008/01/11 12:07
S144	7173	collar and cut adj out	USPAT	OR	ON	2008/01/11 13:12
S145	179	collar and (cut adj out or cutout) and (inhaler or aerosol)	USPAT	OR	ON	2008/01/11 13:12
S146	17	collar with (cut adj out or cutout) and (inhaler or aerosol)	USPAT	OR	ON	2008/01/11 13:16

S147	48	(ring or "split ring" or "split-ring") with (cut adj out or cutout) and (inhaler or aerosol)	USPAT	OR	ON	2008/01/11 13:16
S148	45	S147 not S146	USPAT	OR	ON	2008/01/11 13:23
S149	5	"1368525"	USPAT	OR	ON	2008/01/11 13:28
S150	5144	radial\$4 expand\$4 ring\$4	USPAT	WITH	ON	2008/01/11 13:28
S151	641	radial\$4 expand\$4 ring\$4 contract\$4	USPAT	WITH	ON	2008/01/11 13:33
S152	64	radial\$4 expand\$4 ring\$4 contract\$4 open\$	USPAT	WITH	ON	2008/01/11 13:29
S153	64	radial\$4 expand\$4 ring\$4 contract\$4 open\$4	USPAT	WITH	ON	2008/01/11 13:33
S154	70	radial\$4 expand\$4 ring\$4 contract\$4.ab.	USPAT	WITH	ON	2008/01/11 13:38
S155	214	ring entang\$4	USPAT	WITH	ON	2008/01/11 13:39
S156	18	("1211349" "1694354" "2384668" "2860540" "2888852" "3122383" "3853413" "3894309").PN. OR ("4151779").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 14:09
S157	5100	circclips	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 14:09
S158	213756	circclips \$tangle\$	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/11 14:10
S159	88	circclips \$tangle\$	US-PGPUB; USPAT; USOCR	AND	ON	2008/01/11 14:12
S160	19	circclips \$2tangle\$2	US-PGPUB; USPAT; USOCR	AND	ON	2008/01/11 14:12
S161	4	("2002088458").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERVENT	OR	OFF	2008/10/14 14:21
S162	1	("20020088458").PN.	US-PGPUB	OR	OFF	2008/10/14 14:21
S163	0	("2002/0088458").URPN.	USPAT	OR	ON	2008/10/14 14:22

S164	5	astra.as. and chistrup.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/10/14 14:22
S165	16	astra\$.as. and chistrup.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/10/14 14:23
S166	70	("2631757" "2965100" "3006340" "3012555" "3184115" "3187748" "3302834" "3456644" "3456645" "3456646" "3598294" "3814297" "3826413" "3900138" "4576157" "4664107" "5027808" "5060643" "5217004" "5347998" "5392768" "5394866" "5460171" "5593390" "5755218" "5809997" "5899200" "5925021" "5957886" "6142339" "D207143" "D348929" "D416998" "D433502").PN. OR ("2001/0025639" "2002/008458" "2002/0100473" "2002/0104532" "2003/0192535" "2003/0230305" "2004/0079362" "6415784" "6745761" "6860262" "D449684" "D449882").URPN.	US-PGPUB; USPAT; USOCR	OR	ON 2008/10/14 14:24	
S167	22	"2648578"	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/14 14:39
S168	9	("2648578").URPN.	USPAT	OR	ON	2008/10/14 14:43
S169	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816827" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/14 14:45
S170	122	("1638209" "20030075175" "20030136800" "20060096594" "3446522" "3853413" "3120318" "3549055" "3773227" "3915348" "3935877" "3935999" "3964634" "3988186" "4151779" "4940966" "5060643" "5069368" "5082129" "5175043" "5221576" "5333106" "5335823" "5363842" "5435282" "5482030" "5544647" "5564414" "5623920" "5833066" "5954232" "5988496" "6170717" "6415784" "6997349" "6000394" "6029659" "6065474" "6076521" "6082358" "6119684" "6161724" "6190326" "6234168" "6398132" "6415785" "6516799" "6561384" "6565743" "6578573" "6659307").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/10/17 09:04
S171	1	("2005/0079916").URPN.	USPAT	OR	ON	2008/10/17 09:38
S172	14	("1630339" "20030045363" "20040077412" "20040087380" "20050054451" "20050079916" "5183351" "6375576" "6390925" "6416231" "6533667" "6776721" "6840863").PN. OR ("7396283").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/17 09:38

S173	0	"70083258"	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/17 09:39
S174	1	"7008325"	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/17 09:40
S175	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816627" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/17 09:40
S176	3	("2368175").URPN.	USPAT	OR	ON	2008/10/17 09:55
S177	0	"9827348"	USPAT	OR	ON	2008/10/17 09:56
S178	0	"98027348"	USPAT	OR	ON	2008/10/17 09:56
S179	0	"980027348"	USPAT	OR	ON	2008/10/17 09:56
S180	2	"9827348"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/17 09:56
S181	39663	ring with (ruptur\$4 fractur\$4 break\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/17 10:00
S182	7980	ring with (ruptur\$4 fractur\$4 break\$4).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/17 10:01
S183	3108	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4).ab.	US-PGPUB; USPAT	OR	ON	2008/10/17 10:02
S184	32	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4).ab. and "128"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/17 10:02
S185	565	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4).ab. and expand	US-PGPUB; USPAT	OR	ON	2008/10/17 10:08

S186	845	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4).ab. and expand\$4	US-PGPUB; USPAT	OR	ON	2008/10/17 10:08
S187	141	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4).ab. and expand\$4.ab.	US-PGPUB; USPAT	OR	ON	2008/10/17 10:08
S188	75	ring with (ruptur\$4 fractur\$4 break\$4 snap\$4) with expand\$4.ab.	US-PGPUB; USPAT	OR	ON	2008/10/17 10:10
S189	22	ring with (ruptur\$4 fractur\$4 break\$4) with expand\$4.ab.	US-PGPUB; USPAT	OR	ON	2008/10/17 10:12
S190	4014	ring same break same collar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:41
S191	502	ring with break\$4 with collar	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:41
S192	10	ring with break\$4 with collar and \$tangle\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:44
S193	1416	ring with break\$4 with attach\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:45
S194	2756	ring with break\$4 with (fix\$5 attach\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:45
S195	923	ring near4 break\$4 with (fix\$5 attach\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:45

S196	712	ring near3 break\$4 with (fix\$5 attach\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/12 16:46
S197	385	ring near3 break\$4 with (fix\$5 attach\$4)	US-PGPUB; USPAT	OR	ON	2009/11/12 16:46
S198	3	"7008325".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/11/13 11:21
S199	25	("20030078108" "2368175" "2648578" "2888852" "3417650" "4224806" "4270815" "4317602" "4558962" "4693698" "4818166" "4995736" "5496142" "5525109" "5591085" "5816627" "5915875" "6168529" "6190260" "6390926" "6412985").PN. OR ("7008325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/13 11:22
S200	12	"3549055"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/13 11:27
S201	1757	ring with split\$4 with slid\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:42
S202	53	ring with split\$4 with slid\$4 with contain\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:43
S203	0	ring with break\$4 with slid\$4 with contain\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:44
S204	0	ring with break\$4 with slid\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:44
S205	550	ring with break\$4 with slid\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:44
S206	34	ring with break\$4 with slid\$4 with contain\$4	US-PGPUB; USPAT	OR	ON	2009/11/13 12:44

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